

**WHAT IS CLAIMED IS:**

- 1 1. An engine deceleration control system for an  
2 internal combustion engine of a vehicle, comprising:  
3 a controller arranged,  
4 to detect a deceleration of the engine on the basis  
5 of an engine speed,  
6 to correct an air quantity supplied to the engine on  
7 the basis of the deceleration when the engine is  
8 decelerated,  
9 to prohibit correcting the air quantity for a first  
10 predetermined time period from a moment when a state of  
11 an accelerator of the engine is changed from an operative  
12 state to an inoperative state, and  
13 to cancel prohibiting the correction of the air  
14 quantity when a braking system of the vehicle is put in  
15 an operative state.
- 1 2. The engine deceleration control system as claimed in  
2 claim 1, wherein the controller is further arranged to  
3 prohibit correcting the air quantity for a second  
4 predetermined time period from a moment when a lockup  
5 clutch of a torque converter, which is disposed between the  
6 engine and a transmission, is disengaged.
- 1 3. The engine deceleration control system as claimed in  
2 claim 1, wherein the controller is further arranged to  
3 prohibit correcting the air quantity during a shifting of a  
4 transmission connected to the engine.
- 1 4. The engine deceleration control system as claimed in  
2 claim 1, wherein the controller is further arranged to

3 prohibit correcting the air quantity when a brake system of  
4 the vehicle is put in an inoperative state.

1 5. The engine deceleration control system as claimed in  
2 claim 1, wherein the controller is further arranged to  
3 prohibit correcting the air quantity by prohibiting the  
4 detection of the deceleration.

1 6. The engine deceleration control system as claimed in  
2 claim 1, wherein the first predetermined time period is a  
3 longer time of a time period necessary for decreasing the  
4 engine speed after the accelerator is put in inoperative  
5 state and a shifting time period for upshift.

1 7. The engine deceleration control system as claimed in  
2 claim 2, wherein the second predetermined time period is a  
3 longer time of a time period necessary for disengaging the  
4 lockup clutch and a time period necessary for dropping the  
5 engine speed varied by disengaging the lockup clutch.

1 8. An engine deceleration control system for an internal  
2 combustion engine of a vehicle, comprising:

3 an engine speed detector detecting an engine speed of  
4 the engine;

5 an air quantity control device controlling an air  
6 quantity supplied to the engine;

7 an accelerator operation detector detecting an  
8 operating state of an accelerator of the engine;

9 a brake operation detector detecting that a brake  
10 pedal is depressed; and

11 a controller connected to the engine speed detector,  
12 the air quantity control device and the acceleration

13 operation detector and a brake operation detector, the  
14 controller being arranged,

15 to detect an engine deceleration on the basis of  
16 a variation of the engine speed,

17 to correct the air quantity on the basis of the  
18 engine deceleration,

19 to prohibit correcting the air quantity when one  
20 of first, second and third conditions is satisfied  
21 where the first condition is a condition that an  
22 elapsed time period from a moment of turning off of an  
23 accelerator of the engine is within a first  
24 predetermined time period, the second condition is a  
25 condition that an elapsed time period from a moment of  
26 turning off of a lockup clutch of a torque converter  
27 is within a second predetermined time period, and the  
28 third condition is a condition that a shifting of a  
29 transmission connected to the engine is executed, and  
30 to cancel prohibiting the correction of the  
31 supplied air quantity when a braking operation is  
32 executed.

1 9. An engine deceleration control system for an internal  
2 combustion engine, comprising:

3 deceleration detecting means for detecting a  
4 deceleration of the engine on the basis of an engine speed  
5 of the engine;

6 air quantity correcting means for correcting an air  
7 quantity supplied to the engine on the basis of the  
8 deceleration when the engine is decelerated;

9 correction prohibiting means for prohibiting the  
10 correction of the air quantity during a predetermined time

11 period from a moment that an accelerator is pun in an Off  
12 state; and  
13 correction-prohibiting canceling means for canceling  
14 the correction prohibition when a braking operation is  
15 executed.

1 10. A method of controlling a deceleration of an internal  
2 combustion engine, comprising:  
3 detecting a deceleration of the engine on the basis of  
4 a drop quantity of an engine speed of the engine;  
5 correcting an air quantity supplied to the engine on  
6 the basis of the deceleration when the engine is  
7 decelerated;  
8 prohibiting correcting the air quantity during a  
9 predetermined time period from a moment that an engine  
10 accelerator is pun in an Off state; and  
11 canceling prohibiting the correction when a braking  
12 operation is executed.